Indexes to A.S.M.E. Papers and Publications

THE following pages will serve as a guide to papers and publications of the A.S.M.E. during the calendar year 1936, and also to publications developed by the technical committees. The publications of the Society may be classified in two general groups, regular and special, and were as follows:

REGULAR SOCIETY PUBLICATIONS, 1936

Mechanical Engineering, monthly (see index on pages RI-99–106)
A.S.M.E. Transactions, monthly (see index on pages RI-107–115)
Mechanical Catalog, 1936–1937 edition.

SPECIAL PUBLICATIONS ISSUED IN 1936

1935 Oil Engine Power Cost Report

Heat Transfer (Papers contributed by the Heat-Transfer Committee of the Process Division of the A.S.M.E. at its Annual Meetings in December, 1933 and 1934)

Marketing Research (A Selection of Books and Articles on the Purpose, Scope, and Techniques of Marketing Research, by George W. Kelsey, with the cooperation of Mary L. Alexander and William F. Turnbull)

Standards

Brass Fittings for Flared Copper Tubes, approved January, 1936, published January, 1936

Socket Set Screws and Socket Head Cap Screws, approved February, 1936, published February, 1936

Pipe Plugs, approved October, 1936, published October, 1936

Circular and Dovetail Forming Tool Blanks, approved November, 1936, published November, 1936

Chucks and Chuck Jaws, approved November, 1936, published November, 1936

Lathe Spindle Noses, approved November, 1936, published December, 1936

Power Test Codes

Stationary Steam-Generating Units (revision), approved January, 1930, published January, 1936

Instruments and Apparatus

Part 2, Pressure Measurement; Chapter 2, Static and Total Pressure, Static Holes and Tubes, Impact Tubes, and Chapter 3, Pipes for Pressure Measurement, approved, May, 1934, published October, 1936

Part 3, Temperature Measurement, Chapter 2, Radiation Pyrometers, approved July, 1935, published May, 1936

Part 10, Flue and Exhaust Gas Analyses, approved April, 1934, published June, 1936

Part 14, Linear Measurements, approved January, 1934, published May, 1936

Part 20, Smoke-Density Determinations, approved October, 1933, published May, 1936

Papers Presented at A.S.M.E. Meetings, 1936

The complete technical programs of the meetings of the Society and of its Professional Divisions have been published in *Mechanical Engineering* and may be located by consulting the index on pages RI-99–106. A considerable number of papers and reports included in these programs were not published during the year in either Transactions or *Mechanical Engineering*, but were issued in mimeographed or photo-offset form. Complete sets of these are on file for reference purposes at the office of the Society and the Engineering Societies Library, under the title of "Miscellaneous Papers Presented at A.S.M.E. Meetings, 1936." Photostatic copies of any of the papers may be secured from the Library at regular rates. A list of these papers and reports follows.

Miscellaneous Papers Presented at A.S.M.E. Meetings, 1936

ABBIS, R. D., Heat Transfer in Apparatus Used in Conjunction With By-Product Coke Plants

ALDEN, C. R., Characteristics of Fuel-Injection Systems

BAKER, HOWARD, Impression Lead and Electrotype Foil—Their Manufacture and Use by the Electrotyper

BERK, A. A., AND SCHROEDER, W. C., Apparent Correlation Between the Overall Reaction of Solutions on Steel and the Embrittlement of Steel

Bibliography of the Aerodynamics of Streamlined Railroad Equipment

BINKLEY, E. R., The Effect of Angle of Emission on the Radiating Power of Various Oxided Metal Surfaces

BOLLER, E. R., Nitric and Etching of Photo-Engravers' Zinc

BOWMAN, R. A., Investigation of Heat-Transfer Rates on the External Surface of Baffled-Tube Banks

BROWN, J. M. D., Some Recent Developments in Bone Char Filtration

BROWN, J. M. D., What We Don't Know About Bone Char

BROWN, N. C. L., The Mechanics of the Car Retarder

COOKE, HARTE, Bearing Design

COOPER, J. M., Small High-Speed Gas Engines for Oil-Well Pumping

DODGE, WILLIAM G., AND BAUMRUCKER, WILLIAM, JR., Newspaper First-Impression Printing Problems

EPSTEIN, SAMUEL, Electrotype Metal

FELDMEIER, H., Heat Transfer in Dairy Apparatus

FISCHER, HANS, The Characteristics of the Lanova Combustion System

FISHER, A. J., Oil Consumption of Heating and Metallurgical Furnaces

FINKELDEY, WILLIAM H., Sheet Zinc for Photo-Engraving

GRIFFITHS, E. M., How Irregular Operations Affect Furnace Economy

GUGGENHEIM, HARRY F., A Panorama of Aviation Progress

HARCOURT, GUY, Drum and Contact Drying

HIGGINS, M. B., Transfer Rates on Heat-Exchange Services

HOUGHTEN, F. C., Heat-Transfer Rates

How Railroads Are Receiving the Application of Aerodynamics

HOWELL, F. K., Latest Foreign Developments in the Continuous Drying of Staple Rayon

HUEBNER, WILLIAM C., Precision Measurement of Color Values

KANTROWITZ, M. S., AND SIMMONS, R. H., The Technical Status of Permanence and Durability of Paper

KAUFMAN, R. H., AND BERKSHIRE, W. T., Characteristics of A-C Generators for Parallel Operation When Driven by Internal-Combustion Engines

KING, W. J., AND KNAUS, W. L., Heat-Transfer Rates in Refrigerating and Air-Cooling Apparatus

KINNEY, S. P., Checker Construction in the Blast-Furnace Hot Stove

LAMPTON, G. T., Controllable Propeller Testing

MATTOCKS, E. O., Radiation From Premixing Burner Flames in Combustion Chambers

MAWHINNEY, M. H., Heat-Transfer Rates in Fuel-Fired Furnaces

MCCULLOCH, C. E., The Design of the Radiant-Heat-Absorption Section of Pipe Still Coils

MCGAR, B. H., Sheet Brass for Photo-Engraving and Etching

MERTLE, J. S., Recent Photomechanical Developments

MOORE, JAMES W., Improvement and Development of Cast Iron Pipe During the Past Fifteen Years

MURRAY, ARTHUR F., Economics of Manufacturing Layout

O'MARA, RICHARD F., Flash Drying for Materials of High Moisture Content

PERRY, R. L., Heat Transfer in a Horizontal-Coil Vat Pasteurizer

PHILIPPBAR, F. J., Aircraft-Engine Lubrication

Progress in Railroad Mechanical Engineering in 1936

PUTNAM, G. W., Heat Transfer in Open-Hearth Furnaces

REED, ROBERT F., Lithographic Research
Reports of Committees to A.S.M.E. Council
ROSENZWEIG, S., Vibration Control of Internal-Combustion Engines
SCHWARZ, RALPH H., AND WINKLER, J. HOMER, Heat-Treated Electrotypes
SCOTT, HOWARD, The Problem of Quenching Media for the Hardening of Steel
SEIDER, E. N., Application of Fouling Factors in the Design of Heat Exchangers
SMITH, C. R., Air Line Operation
SMITH, V. WEAVER, Modern Steam Drilling Equipment
STONE, M., Recording Extensometer for Rolling Mills
THIRLWALL, J. C., Application of Diesel-Electric Locomotives in the Buffalo Area
TILLINGHAST, HAROLD M., Color Printing in Daily Newspapers
WEBER, E. R., Diesel Engines in Railroad Service
WHITE, A. E., AND GOOD, C. W., Research Activities at the University of Michigan
WILSON, G. C., Engine Governors

Publications Developed by the Technical Committees

The Society's technical committees, the first of which was organized many years ago and all of which have been continuously at work on codes, standards, research, and other special reports, have developed a series of publications of permanent value to the membership. The following list is first presented here for record and for ready reference. This list covers the entire group of publications of these committees completed to date which are now available.

To assist the members in securing copies of these publications the sale price is also given. It should be recalled, however, that a discount of 20 per cent is allowed to members of the A.S.M.E. on all pamphlet publications, except standards and the cases specially noted.

RESEARCH

Dynamic Loads on Gear Teeth (1932), $1.50
Determination of Carbonate, Phosphate and Hydroxides in Boiler Waters (1933), $1.75
Fluid Meters
- Part 1—Theory and Application (under revision) $2.50
- Part 2—Description of Meters (1931), $1.75
- Part 3—Selection and Installation (1933), $1.50

Tests on Electrical Equipment for Drilling Rotary Drilled Oil Wells (1933), $0.85
Tests on Steam Equipment for Drilling Rotary Drilled Oil Wells (1932), $0.85
Roll-Neck Bearings (1935), $1.50
Bibliography on Cutting of Metals (1866–1930), $1.25
Bibliography on Deterioration of Condensing Equipment (1845–1930), $1.25
Bibliography on Effect of Temperature Upon Properties of Metals (1828–1931), $1.25
Bibliography on Management Literature (1931), $1.75
Supplement to Management Bibliography (in preparation)
Bibliography on Mechanical Springs (1678–1927), $1.25
Bibliography on Woods of the World (1928), $1.25
Steam Tables and Mollier Diagram (1930), $2.50

POWER TEST CODES

TEST CODES FOR

Atmospheric Water-Cooling Equipment (1930), $0.45
Centrifugal and Rotary Pumps (1927), $0.50
Compressors and Exhausters (1934), $0.95
Condensing Apparatus (1925), $0.55
Displacement Compressors and Blowers (1925), $0.50
Evaporating Apparatus (1925), $0.50
Feedwater Heaters (1925), $0.35
Gas Producers (1928), $0.55
Internal-Combustion Engines (1929), $0.55
Liquid Fuels (1930), $0.35
Reciprocating Steam Engines (1935), $0.65
Reciprocating Steam-Driven Displacement Pumps (1925), $0.65
Refrigerating Systems (1926), $0.55
Solid Fuels (1931), $0.55
Speed-Responsive Governors (1927), $0.45
Stationary Steam-Generating Units (1930), $0.60
Steam Locomotives (1926), $0.55
Steam Turbines (1928), $0.55

SUPPLEMENTARY CODES AND PUBLICATIONS

Definitions and Values (1931), $0.40
General Instructions (1929), $0.35
Instruments and Apparatus—
- Part 1—General Consideration (1935), $0.35
- Part 2—Pressure Measurement, Chapter 1, Barometers, and Chapter 6, Tables, Multipliers and Standards (1929), $0.45
- Part 2—Pressure Measurement; Chapter 2, Static and Total Pressure, Static Holes and Tubes, Impact Tubes, and Chapter 3, Pipes for Pressure Measurement (1936), $0.65
- Part 3—Temperature Measurement, Chapter 1, General; Chapter 5, Pyrometric Cones; Chapter 6, Liquids-in-Glass Thermometers; and Chapter 7, Bourdon Tube Thermometers (1931), $0.75
- Part 3—Temperature Measurement; Chapter 2, Radiation Pyrometers (1936), $0.55
- Part 3—Temperature Measurement, Chapter 8, Optical Pyrometers (1933), $0.40
- Part 4—Head Measuring Apparatus (1933), $0.35
- Part 6—Electrical Measurements (1934), $1.25
- Part 9—Heat of Combustion (1932), $0.40
- Part 10—Flue and Exhaust Gas Analyses (1936), $1.35
- Part 11—Determination of Quality of Steam (1931), $0.45
- Part 12—Measurement of Time (1932), $0.35
- Part 13—Speed Measurements (1930), $0.45
- Part 14—Linear Measurements (1936), $0.55
- Part 16—Density Determinations (1931), $0.35
- Part 17—Determination of the Viscosity of Liquids (1931), $0.50
- Part 18—Humidity Determinations (1932), $0.45
- Part 20—Smoke-Density Determinations (1936), $0.65
- Part 21—Condenser Leakage Tests. Chapter 1 (1928), $0.45
- Part 21—Leakage Measurement, Chapter 2, Boiler and Piping; Chapter 3, Steam Engine Leakage (1932), $0.40

BOILER CODE

Power Boiler Code (1935) Including Materials Specifications, with 1936 Addenda, $2.50
Locomotive Boiler Code (1935) with 1936 Addenda, $0.55
Low-Pressure Heating Boiler Code (1935) with 1936 Addenda, $0.65
Miniature Boiler Code (1935) with 1936 Addenda, $0.50
Suggested Rules for Care of Power Boilers (1935), $0.70
A.S.M.E. Unfired Pressure Vessel Code (1935) with 1936 Addenda, $0.75
A.S.M.E. Boiler Construction Code, Combined Edition (1935) with 1936 Addenda, $5.50
Boiler Code Interpretation Service Data Sheets, $0.15
Annual Subscription, $2.50

STANDARDS

MACHINE SHOP PRACTICE STANDARDS

Shafting and Stock Keys (B17.1—1934), $0.45
Code for Design of Transmission Shafting (B17c—1927), $0.75
Woodruff Keys, Keyslots, and Cutters (B17f—1930), $0.35
Tolerances, Allowances, and Gages for Metal Fits (B4a—1925), $0.50
American Standard Screw Threads for Bolts, Machine Screws, Nuts, and Threaded Parts (B1.1—1935), $0.60
Wrench-Head Bolts and Nuts and Wrench Openings (B18.2—1933), $0.50
Slotted Head Proportions; Machine Screws, Cap Screws, and Wood Screws (B18c—1930), $0.45
Track Bolts and Nuts (B18d—1930), $0.40
Round Unslotted Head Bolts, Carriage, Step, and Machine Bolts (B18e—1928), $0.40
Plow Bolts (B18f—1928), $0.35
Tinners', Coopers', Belt Rivets (B18g—1928), $0.35
Rotating Air Cylinders and Adapters (B5.5—1932), $0.35
Jig Bushings (B5.6—1935), $0.35
T-Slots, Their Bolts, Nuts, Tongues, and Cutters (B5a—1927), $0.35
Tool Holder Shanks and Tool Post Openings (B5b—1929), $0.25
Milling Cutters: Nomenclature, Diameters, Thickness, and Other Important Dimensions (B5c—1930), $0.75
Taps—Cut and Ground Threads (B5e—1930), $0.50

Spur Gear Tooth Form (B6.1—1932), $0.45
Gear Materials and Blanks (B6.2—1933), $0.50
Shaft Couplings, Integrally Forged Flange Type for Hydroelectic Units (B49—1932), $0.35
Drawings and Drafting Room Practice (Z14.1—1935), $0.50
Small Rivets (B18a—1927), $0.30
Socket Set Screws and Socket Head Cap Screws (B18.3—1936), $0.40
Circular and Dovetail Forming Tool Blanks (B5.7—1936), $0.40
Chucks and Chuck Jaws (B5.8—1936), $0.45
Lathe Spindle Noses (B5.9—1936), $0.50

Pipe and Fittings

Wrought-Iron and Wrought-Steel Pipe (B36.10—1935), $0.50
Code for Pressure Piping (no discount) (B31—1935), $1.00
Cast-Iron Pipe Flanges and Flanged Fittings for 25 Lb Maximum Saturated Steam Pressure (B16b2—1931), $0.40
Cast-Iron Pipe Flanges and Flanged Fittings for 125 Lb Maximum Saturated Steam Pressure (B16a—1928), $0.50
Cast-Iron Pipe Flanges and Flanged Fittings for 250 Lb Maximum Saturated Steam Pressure (B16b—1928), $0.50
Cast-Iron Pipe Flanges and Flanged Fittings for 800 Lb Maximum Hydraulic Pressure (B16B1—1931), $0.35
Malleable-Iron Screwed Fittings for 150 Lb Maximum Saturated Steam Pressure (B16c—1927), $0.40
Cast-Iron Screwed Fittings for 125 and 250 Lb Maximum Saturated Steam Pressure (B16d—1927), $0.35
Steel Flanged Fittings and Companion Flanges for 150, 300, 400, 600, 900, 1500 Lb Maximum Steam Service Pressure (B16e—1932), $0.65
Cast-Iron Long Turn Sprinkler Fittings for 150 and 250 Lb Maximum Saturated Steam Pressure (B16g—1929), $0.50
Scheme for the Identification of Piping Systems (A13—1928), $0.50
Cast-Iron Soil Pipe and Fittings (A40.1—1935), $0.65
Pipe Plugs of Cast Iron, Malleable Iron, Cast Steel or Forged Steel (B16e2—1936), $0.35
Brass Fittings for Flared Copper Tubes (A40.2—1936), $0.35

Letter and Graphical Symbols

Symbols for Mechanics, Structural Engineering and Testing Materials (Z10a—1932), $0.25
Symbols for Hydraulics (Z10b—1929), $0.35
Symbols for Heat and Thermodynamics (Z10c—1931), $0.30
Symbols for Photometry and Illumination (Z10d—1930), $0.20
Aeronautical Symbols (Z10e—1929), $0.35
Mathematical Symbols (Z10f—1928), $0.30
Letter Symbols for Electrical Quantities (Z10g1—1929), $0.20
Graphical Symbols for Electric Power and Wiring (Z10g2—1933), $0.20
Graphical Symbols for Radio (Z10g3—1933), $0.20
Graphical Symbols for Electrical Traction Including Railway Signaling (Z10g5—1933), $0.40
Graphical Symbols for Telephone and Telegraph Use (Z10g6—1929), $0.20
Symbols for Electrical Equipment of Buildings (C10—1924), $0.20
Abbreviations for Scientific and Engineering Terms (Z10i—1932), $0.40
Time Series Charts (Tentative Draft), $1.00
Graphical Symbols for Mechanical Engineering (Z14.2—1935)

Miscellaneous Standards

Engineering and Scientific Charts for Lantern Slides (Z15.1—1932), $0.50
Fire-Hose Coupling Thread for $2\frac{1}{2}$, 3, $3\frac{1}{2}$, and $4\frac{1}{2}$ in. Connections (B26—1925), $0.25
Production and Field Inspection of Fire-Hose Coupling Screw Thread, $0.25
Hose-Coupling Screw Threads for $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2 in. Connections (B33.1—1935), $0.25
Rolled Threads for Screw Shells for Electric Sockets and Lamp Bases (C44—1931), $0.35

SAFETY

Safety Code for Elevators (A17—1931) (no discount), $1.00
Safety Code for Mechanical Power-Transmission Apparatus (no discount) (B15—1927), $0.35

JOINT CODE

API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases (1936), $1.00 (no discount)

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